COLOR TELEVISION

SERVICE MANUAL

SERVICE MANUAL SERVICE MANUAL

TS2050

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AUTION: THIS SERVICE MANUAL IS ONLY FOR PROFESSIONAL SERVICE PERSONNEL'S REFERENCE. BEFORE SERVICING THIS CHASSIS, PLEASE READ THE FOLLOWING NOTICE ITEMS.

1. SAFETY INSTRUCTION AND GENERAL INSTRUCTION

Before servicing and aligning this equipment, please read the following **"X-RAY RADIATION PRECAUTION"** ,**"SAFETY PRECAUTION"** and **"PRODUCT SAFETY NOTICE"**.

1.1 X-RAY RADIATION PRECAUTION

1) Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The normal value of the high voltage of this receiver is under 24.5kV(21") and 22.5KV(14") at zero beam current (minimum brightness), the high voltage must not, under any circumstances, exceed 30kV.
2) Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended the reading of the high voltage be recorded as a part of service record. It is important to use an accurate and reliable high voltage meter.
3) The primary source of X-RAY RADIATION in this TV receiver is the picture tube. For continuous X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
4) Some parts in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continuous safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

1.2 SAFETY PRECAUTION WARNING:

Service should not be attempted by anyone unfamiliar with the necessary precaution on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1) Since the power supply circuit of this receiver is directly connected to the AC power line, an isolation transformer should be used during any dynamic service to avoid possible shock hazard.
2) Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3) When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as: non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.
4) When replacing parts or circuit boards, disconnect the power cord.
5) When replacing a high wattage resistor (oxiode metal film resistor) on the circuit board, keep the resistor 10mm (1/2in) away from circuit board.
6) Connection wires must be kept away from components with high voltage or high temperature.
7) If any fuse in this TV receiver is blown, replace it with the FUSE specified in the chassis parts list.

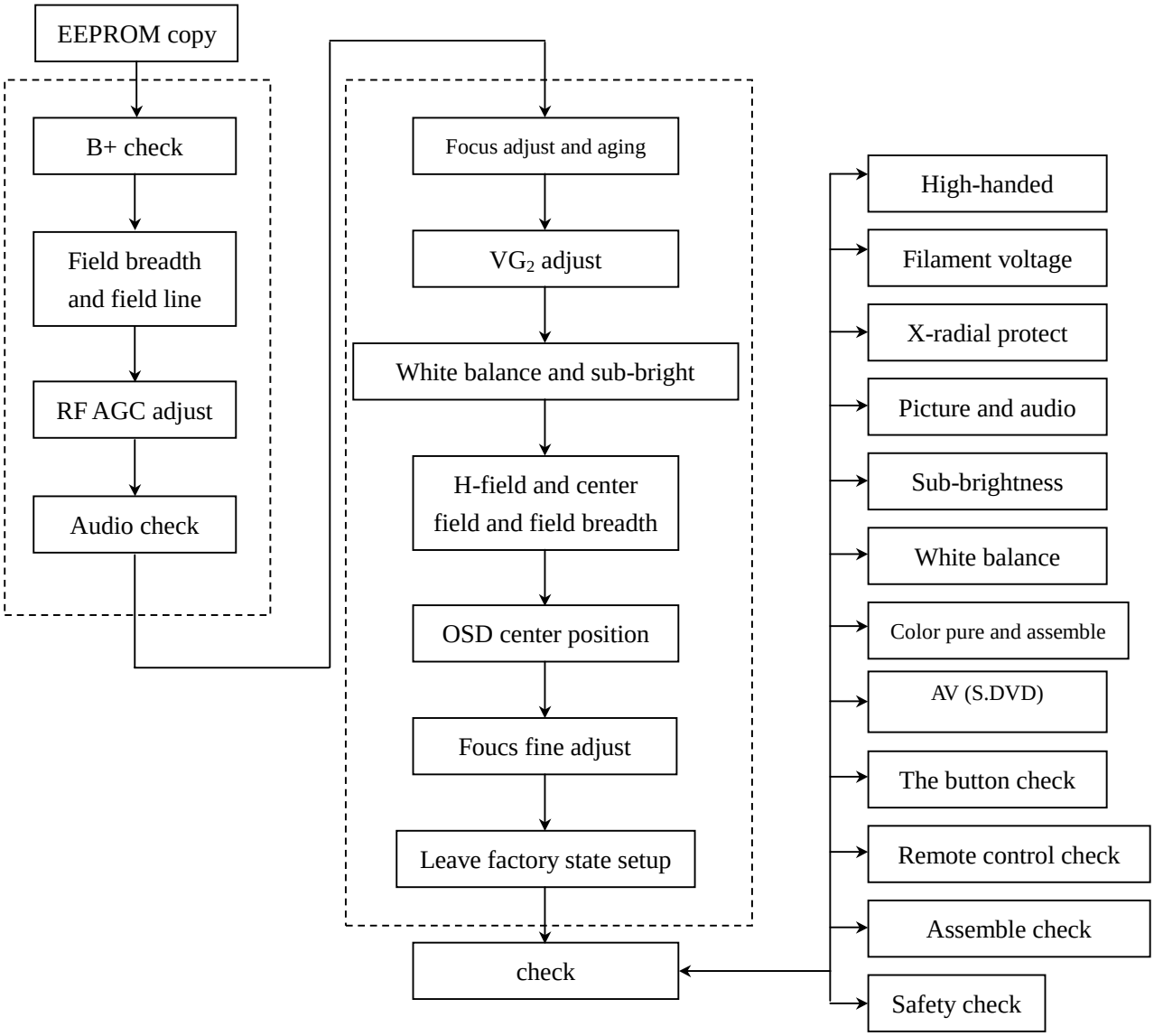
1.3 PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-RAY RADIATION protection afforded by them cannot necessarily be obtained by using replacement components rated for higher wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplement electrical components having such features are shaded on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same characteristics as specified in the parts list may create shock, fire, X-RAY RADIATION or other hazards.

2 Alignment items and procedure

The alignment flow chart (see below figure).



3 TEST EQUIPMENT

3.1 AUDIO VOLTAMETER
3.2 OSCILLOGRAPH
3.3 HIGH-VOLTAMETER
3.4 DIGITAL MULTIMETER
3.5 AC ATTACK PULL TEST EQUIPMENT
3.6 SCAN frequency signal generator BT-3

4 Debugging instruction

4.1 enter into the factory debugging menu

use to the remote control(RC-A23),follow to the blow model enter into the factory:

DISPLAY → MUTE → MUTE → MUTE → enter into the factory

press “sleep” button for pages upward, press “return” button for pages downward, press “CH+/-” to select alignment items and “VOL+/-” to adjust volume, press “MUTE” to exit.

If the remote sensor designed for alignment is unavailable, press the following buttons to enter by using user remote sensor

4.2 B+ voltage adjustment

Check B+ voltage (negative pole of VD509) by using DC voltmeter DC 200V

14”110 V±1 V CRT 21”PF 100 V CRT A15QDX992X002(H)

21”110 V±1 V CRT 54SX503Y22-CD01 A51LVV898X12

4.3 AGC adjustment

Measure the voltage of RF AGC by connecting digital DC voltmeter with TP1, receive weak signal (40dBu) and the static AGC voltage of TP1 AGC should be V1=4V±0.2V; the receive medium signal (60dBu), adjust the value of PAGE8 RF. AGC of factory menu and the start-control voltage of TP1 AGC should be V2=3.5V±0.2.if V2>3.5V, then the voltage is -1 or -2,if V2<3.5V, then the voltage is+1 or+2. after adjustment the picture should not appear no-sync , distortion and moire.

White balance and screen-grid voltage VG2 adjustment

After enter PAGE3 of factory menu, use remote sensor directly to adjust white balance by pressing the following digital buttons:

“1”=R.BIAS(+) “2”=G.BIAS(+) “3”=B.BIAS(+)

“4”=R.BIAS(-) “5”=G.BIAS(-) “6”=B.BIAS(-)

press “pp” button to select picture mode→T1→T2→bright→soft→nature→user→ the current picture mode will be display on the screen.

The T1 mode has the maximum value of brightness and contrast with all the other items min. Value of all the analog are minimum while in T2 mode.

Before adjustment you should set the following items :SUB-BRIGHT=50, R.B=100, G.B=100, B.B=100, R.D=100, G.D=15, B.D=100

Adjustment method: 1. press PP button to select T2 picture mode, press CH+/- to select V.K, press vol+ to let the field scanning fail to oscillate, adjust the screen-grid potentiometer on FBT clockwise to let horizontal bright line just appear on the screen; let the value of G.B unchanged, adjust R-BIAS and B-BIAS to let the horizontal bright line appear white. If the green horizontal line don’t appear firstly, fine-turn the screen-grid voltage, the adjust R.B and B.B until red , green and blue just appear. After adjustment press VOL- to obtain normal field scanning mode.

4.4 Receive grey-scale signal (D8), enter PAGE4 of factory menu, press PP to select T2 picture mode,

adjustment SUB-BRIGHT to let picture on the screen microbright.

4.5 receive white balance adjustment signal

enter PAGE3 of factory menu, press PP to select T1 picture mode, let the value of GD unchange, adjust RD and B.D to let the white part of the picture appear “white”.

4.6 Use white balancer to rectify the white balance under following conditions

colour temperature:12000K+8MPCD

x =0.270± 0.008 Y=0.283±0.008 dark space : 4.5nit, bright space: 60nit

Note:1. Check the white balance of bright field and dark field by receiving monochrome signal or adjusting the degree of saturation to minimum under maintenance condition, adjust RGB BIAS in dark field and RGB DRIVE in bright area, adjust bright/dark balance repeatedly until the bright and dark field have no colour drift.

2. While the colour saturation changed from maximum to minimum, if the dark balance appears changeable, adjust RY.DC.LVL and BY.DC.LVL (page3) to let it coincide with white balance.

3. If the dark balance appears changeable while connected with DVD, adjust YUV.BY.DC and YUV.RY.DC (PAGE4) to let it conincide with white balance.

4.7 High voltage and filament voltage check

Connect a high-voltage meter between anode cap of picture tube and the ground, measure the filament voltage using rms voltmeter, set the picture mode to “standard”, the high-voltage: 24.5KV±1KV of 21”, 22.5KV±1KV of 14”,filament voltage: 6.3±0.1Vrms.

4.8 x -ray protection check

Receive local TV signal, set the picture mode to “standard”, shorten the circuit and measure the value of TP1-TP2, restart the TV 30 seconds after turn off the power source and it should return to normal.

4.9 AV function check

according to the owner’s manual require, connect to the AV equipment and the AV interface:

VIDEO IN:	1 Vp-p 75OHM	AUDIO IN:	(-8±3)dBm>47 kOHM
S interface Y IN:	1 Vp-p 75OHM	C IN:	0.3 Vp-p 75OHM
DVD Y IN:	1 Vp-p 75OHM	Cr IN:	0.7 Vp-p 75OHM
		Cb IN:	0.7 Vp-p 75OHM

4.10 AV parts check

incept to standard the TV signal:

a） AV and crossfire and allophone and shake ;

b） The user control function ana picture model

c） The remote control function check;

d） Color pure and converge check.

4.11 leave factory state setup

Picture model (PP)	STENDARD
language	All the country language
Color system	AUTO
C.CAPTION	C1
CCD ON MUTE	OFF
RECEPTION	AIR
AFT	ON

MTS	AUTO
PASSWORD	CLEAR
volume	30

4.12 the factory menu adjustment model pre-set

OSD	item	Pre-set	model
P1-60			
V SIZE	60HZ field amplitude	***50***	4.5.1
V SHIFT	60HZ field center	***0***	4.5.1
H-PHASE	60HZ H-center	***9***	4.5.1
V LINE	60HZ V-line	***15***	4.5.1
V SC	60HZ field S-correct	***10***	4.5.1
V COMP	field amplitude compensate	***7***	fixed
L.BLK	Left blanking	3	fixed
R.BLK	Right blanking	3	fixed
P3-50			
V SIZE	50HZ field amplitude	***50***	4.5.2
V SHIFT	50HZ field center	***0***	4.5.2
H-PHASE	50HZ H-center	***6***	4.5.2
V LINE	50HZ V-line	***13***	4.5.2
V SC	50HZ field S-correct	***10***	4.5.2
P5			
LINE	Level bright line	0	0=normal 1= Level bright line
RB	Red cut off	***100***	4.4
GB	Green cut off	***100***	4.4
BB	Blue cut off	***100***	4.4
RD	Red driver	***100***	4.4
GD	Green driver	***15***	4.4
BD	Blue driver	***100***	4.4
P6			
RF AGC	RF AGC	***30***	4.3
SUB-BRI	Sub-brightness	***127***	4.4
SUB-CNT	Sub-contrast	31	fixed
SUB-COL	Sub-colour	15	fixed
SUB-SHP	Sub-definition	15	fixed
SUB-TINT	Sub-tint	***28***	fixed
P7			
VOL.FIL	Volume control ADC filter	0	fixed
OSD.COT	OSD contrast	***2***	fixed
OSD.HPOS	OSD center	***6***	fixed
AFT	Line AFC loop gain and sync gate switch	1	fixed
VIF SW	IF3=45.75MHZ	3	fixed

SIF SW	Sound IF0=4.5MHZ	0	fixed
VIDEO LEVEL	VIDEO LEVEL	***3***	fixed
P8			
GY ANGLE	G-Y demodulation angle	0	fixed
V.R TM	Filed scan strting time	0	fixed
R/B ANG	R-Y/B-Y demodulation angle	8	Fixed
R/B BAL	R-Y/B-Ydemodulation balance	8	fixed
C TRAP	Color trap filter	6	fixed
H FREQ	H-frequency	16	fixed
C.BPF TEST	Color band filter center frequency	0	fixed
P9			
OVER.MOD.SW	Selection over-modulation function	0	Fixed,0=nothing 1=have
OVER.MOD.LVL	Adjustment over-modulation working point	0	fixed
BLK.STR	Dark level expand starting control point	0	Fixed,0=40IRE 2=60IRE 3-OFF
BLK.GAIN	Dark level expand gain	0	Fixed,0=MIN 2=MAX
Y.APF	Selection color trap filter	0	0=trap filter,1= direct pass(YcbCr&Y/C)
PRE.ADJ	Pre-shoot	***3***	fixed, 0=narrow 3=width
OVER ADJ	overshoot	***3***	Fixed,a 0=narrow 3=width
C.VCO.ADJ	Color VCO frequency adjustment	***4***	fixed,0－4－7=-120KHZ-0-90KHZ
P10			
BRT.ABL.DEF	Brightness ABL	0	fixed,0=ABL ON 1=ABL OFF
MID.STP.DEF	ABL start control point	0	fixed
BRT.ABL.THR	ABL threshold	7	fixed
WPL.OPE	White peak limit	2	fixed
V BLK.SW	Field blanking switch	0	fixed ,0=nomarl;1=width model
FBP BLK SW	Horizontal blanking switch	1	fixed,0=inside produce;1=FBP and inside logic “and”
DC REST	DC recover rate	1	fixed,0=100% 1=107%
CD.MODE	Field frequency division model	0	fixed,0=auto
P11			
CORE GAIN	Noise reduction	2	fixed,0=OFF 1=MIN 3=MAX
γ .GAMA	r-correct	0	fixed,0=OFF
RGB TEMP.SW	RGB DC output temperature speciality	1	fixed
A.MONI SW	Selection pin5 output	***1***	fixed，1=SAO
SVO OR FSC	Selection pin5 output	0	fixed,0=VIDEO 1=FSC(color sub-carrier wave)
CROSS B/W	Selection test signal	0	fixed,0=TV

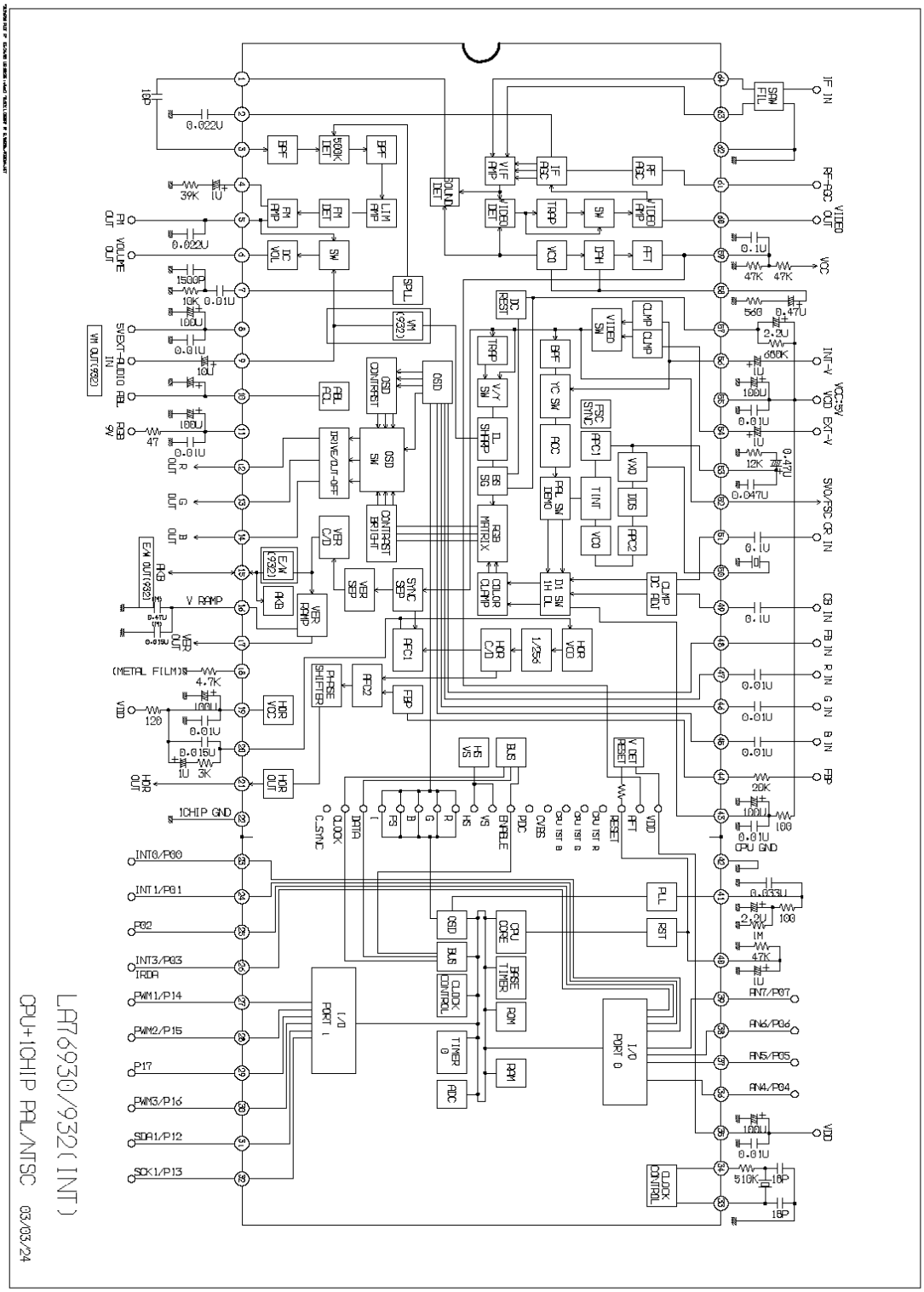
CRAY.MODE	Test signal	0	fixed,0=white(75%)1=grey(15%)
P12			
BY TV	Blue chromatism DC level	***8***	4.4 adjustment dark white balance(TV/AV model)
RY TV	Red chromatism DC level	***8***	4.4 adjustment dark white balance(TV/AV model)
BY YUV	DVD input Blue chromatism DC level	***8***	4.4 adjustment dark white balance (DVD input)
RY YUV	DVD input Red chromatism DC level	***8***	4.4 adjustment dark white balance(DVD input)
S.TRAP.TEST	Sound trap filter adjustment	6	fixed
LOW.BRI	Min-brightness	***28***	fixed
LOW.CONT	Min-contrast	***30***	fixed
P13			
COL.KILL	Achromatic level	5	fixed,0=-30dB 3=-40dB
VCO.FREQ	VCO frequency	32	fixed
P14			
Y GAIN		0	fixed
Y TH		0	fixed
B OFFSET		0	fixed
B WIDTH		0	fixed
C OFFSET		0	fixed
C WIDTH		0	fixed
CAN.V CHIP	V-CHIP	0/1	1=CAN.V-CHIP
OPTION			
AV	AV selection	***3***	AV input select(3=AV1/AV2/S/DVD)
MTS	MTS IC selection	***1/0***	0=nothing,1=72700 2=AN5832
V.OFF.MOTE	Turn off model	1	0=discharge,1=close
PWR.MEM	Turn on model	***0/2***	0=standby,1=auto turn on,2=memory
1115	select LV1115	0	fixed,0=nothing;1=have
BLCK GROND	No signal background selection	1	0=nothing 1/3=blue background;2=black background
N/PN	South America and North America selection	***1/0***	0=south america;1=north america
1115(the unit no use)			
VOL.OFFSET			
GAIN			
PWM LOGIC			
AVL MODE			
AVL DET LEVEL			
AVL SLOPE			
PWM SET			

VOL 1	1% volume control speciality	30	fixed
VOL 25	25%volume control speciality	32	fixed
VOL 50	50%volume control speciality	68	fixed
VOL 75	75%volume control speciality	82	fixed
72700			
ALC	ALC	1	fixed ,1=ALC ON
VOL	Baseband model ,input level adjustment	0	The unit no use
SAP LEVEL	SAP level	1	fixed
SIF.M/BB.M	SIF and baseband model	0	fixed,0=SIF MODE 1=BB MODE
5832			
AGC		1	fixed

Note:above “/” are the adjustment data for north america, below it are for south america.

IC BLOCK DIAGRAM

LA76931



Function introduction to pin

pin	function	Reference voltage (V)	pin	function	Reference voltage (V)
1	SIF output	2.28	64	PIF input1	2.86
2	PIF AGC	2.61	63	PIF input 2	2.86
3	SIF input	3.11	62	IF GND	0
4	FM filter	2.64	61	RF AGC output	4.55
5	FM filter/sound output	2.25	60	Video output	2.30
6	Sound output	2.24	59	AFT filter	2.50
7	SIF APC filter	2.24	58	APC filter	2.60
8	IF VCC(5V)	4.92	57	Black level detection filter	2.50
9	Expanded sound input	2.25	56	Internal video input and S-C input	2.70
10	ABL	3.21	55	Video, colour and deflexion power VCC	4.90
11	RGB VCC(8V/18Ma)	8.00	54	Expanded video input and Y input	2.50
12	R ouput	2.65	53	Colour APC filter	3.40
13	G ouput	2.65	52	Selection video output and FSC output	2.40
14	B ouput	2.67	51	Cr input	2.50
15	AKB (undo)	2.31	50	4.43 MHZ crystal	2.73
16	Field sawtooth filter to capacitance	2.16	49	Cb input	2.50
17	Field output	2.34	48	Y(DVD) input	
18	VCO Reference voltage	1.65	47	DDS filter	1.89
19	H/BUS VCC(5V/27mA)	6.81	46	Y(Y/C) input	
20	H/APC filter	2.54	45	C(Y/C) input	
21	H-output	0.28	44	Retrace impulse input	1.20
22	Video, colour and deflexion ground	0	43	CCD VCC	4.50
23	**x -ray protection, low level availability**	5.00	42	CPU GND	0
24			41	PLL	3.50
25			40	reset	4.00
26	IR control input	4.90	39	Button input	0.32
27			38	TV/AV H=TV L=AV	0
28	POWER H=OFF L=ON	0	37	AV1/AV2	5.00
29	STAND-BY	5	36	MUTE high level	5.00

30	Mute, high Level availability	0	35	VDD	5.00
31	I2C DATA	5.00	34	x T2	4.50
32	I2C CLOCK	5.00	33	x T1	2.70

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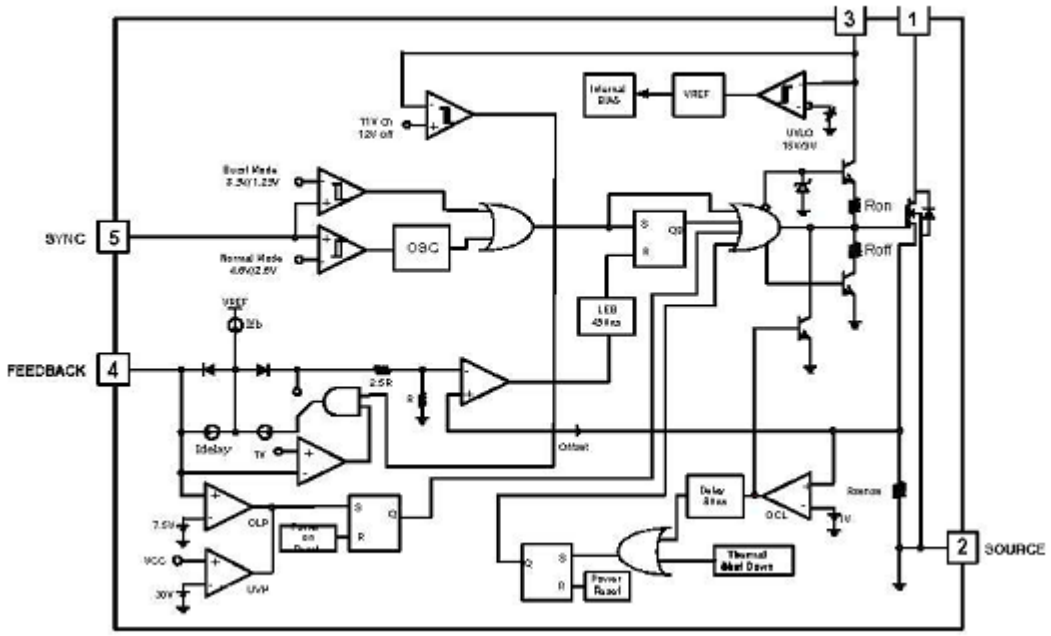

Function introduction to pin

pin	name	function	Reference Voltage(V)
1	Drain	drain output of MOSFET, current-limiting checking point of internal drain current.	283
2	GND	source of MOSFET,common ground and reference of circit controlled by source.	0
3	Vcc	Control cicuit power input, provide starting and stabling Operating current.	23
4	Vfb	Connect it with inverting input terminal of PWM comparator ,the collector of optical coupler can be connected to it. To work stably , connect a capacitor between it and the ground. If the voltage upon it reaches to 7.5V, the overvoltage protection will work.	1.35
5	Sync	Connect it with sync detector for quasi-resonance vonversion. Normal quasi-resonance work, threshold voltage upon sync comparator is 4.6V/2.6V. while expanding quasi-resonance operating mode, the threshold voltage will change to 3.0V/1.8V.	5.65

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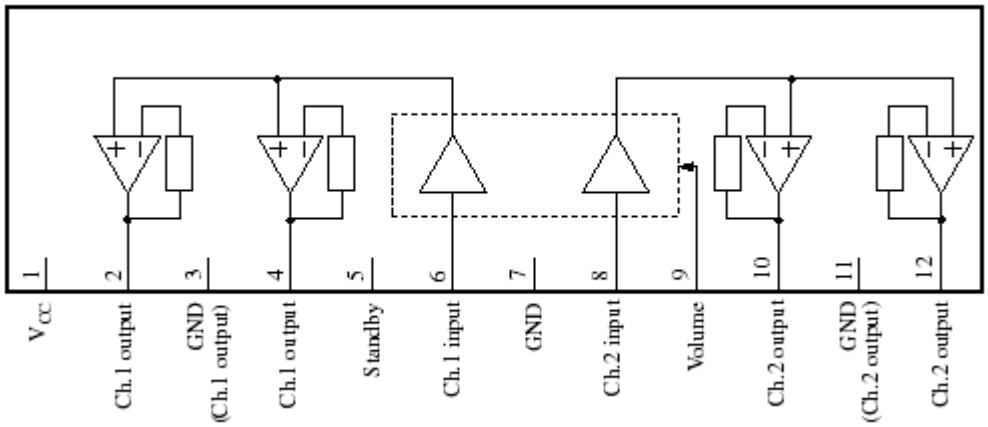

Pins function

pin	function	pin	function
1	power	**7**	GND input
2	CH1+ output	**8**	CH2 input
3	GND	**9**	volume
4	CH1- output	**10**	CH1+ output
5	Stand-by	**11**	GND (CH2 output)
6	CH1 input	**12**	CH1+ output

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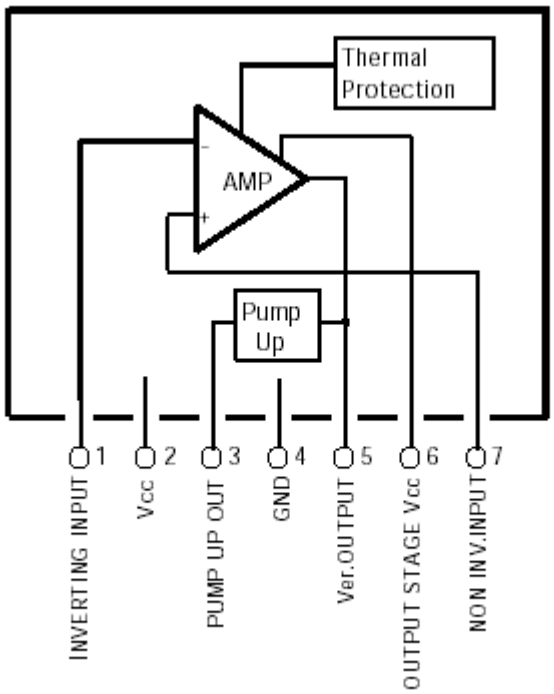
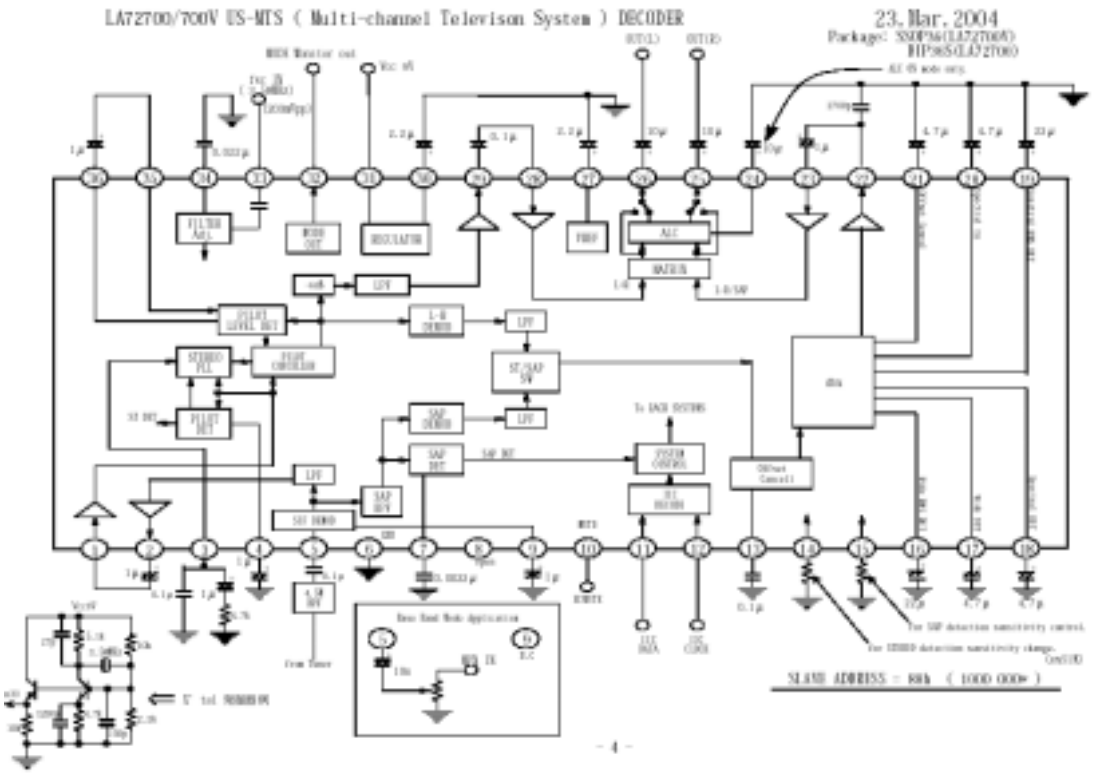


Pins function

pin	function	pin	function
1	Inverting input	5	Ver. output
2	VCC	6	Output stage vcc
3	Pump up output	7	NON inverting input
4	GND		

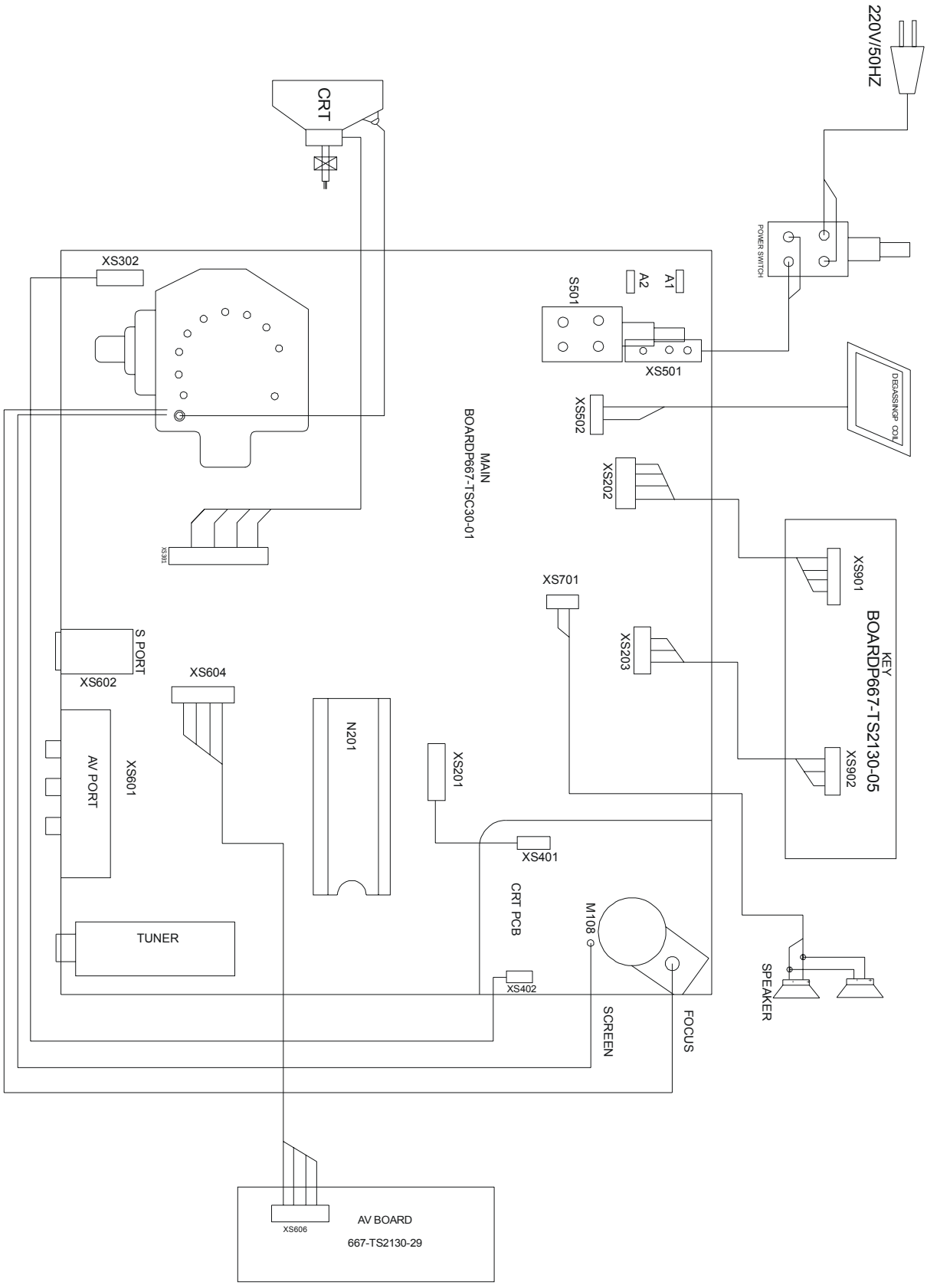
LA72700



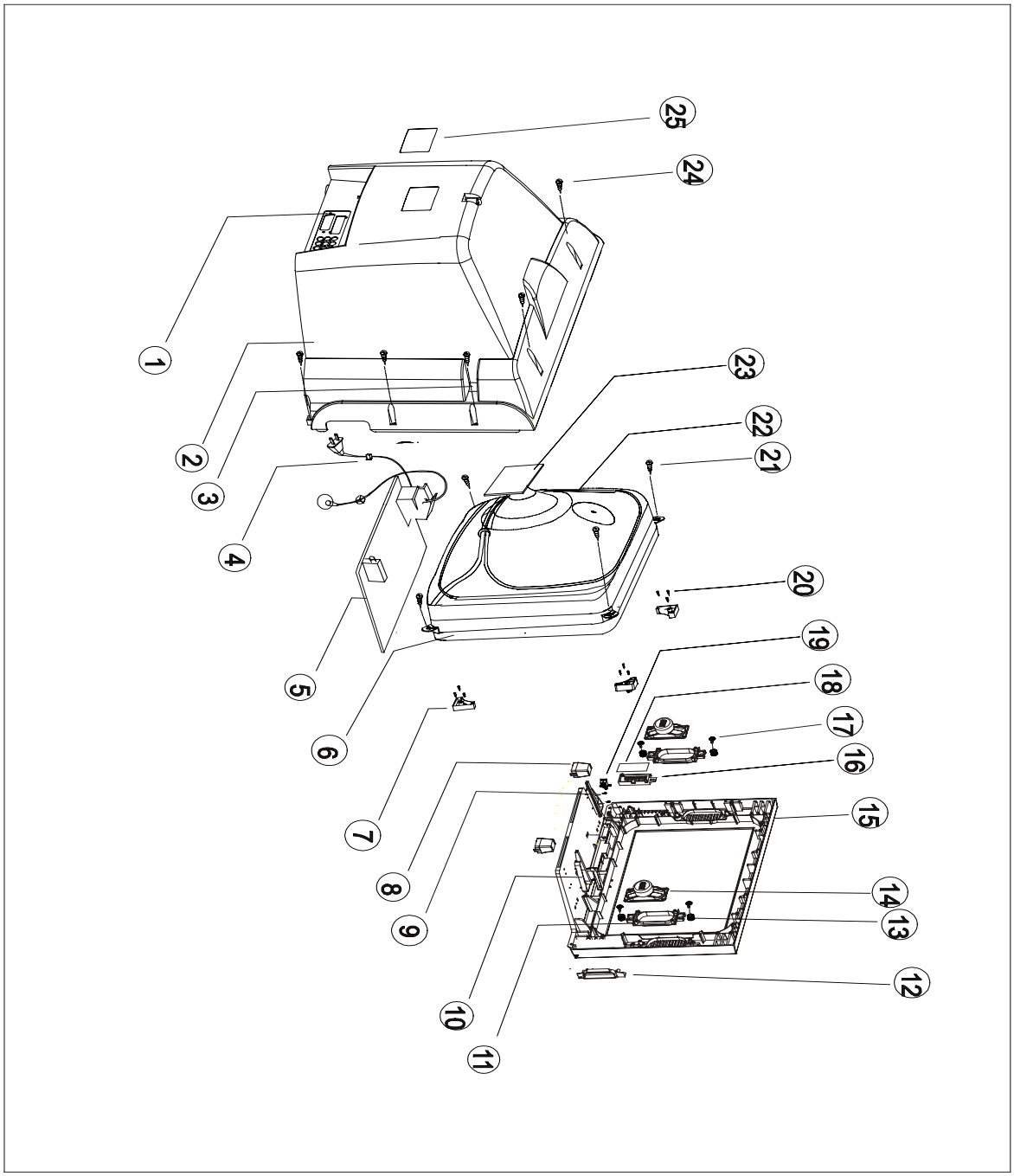
pin	function	pin	function
1	AC coupling input	19	dbx RMS detection
2	AC coupling output	20	Dbx main signal V/I charge filter
3	Stereo VCO PLL filter	21	Decoupling filter
4	Pilot level check	22	AC coupling output
5	Signal input	23	AC coupling input
6	GND	24	ALC filter
7	SAP carrier level check	25	R output
8		26	L output
9	SIF decoupling filter	27	Reference voltage(DC3.8V)
10	mute(5V)	28	AC coupling input
11	Serial data input(SDA)	29	AC coupling output
12	Serial clock input (SCL)	30	Voltage regulation filter
13	Decoupling filter	31	VCC(9V)

14	Stereo detection sensitivity	32	Model output: MONO=0.9V SAP=2.0V STEREO=3.0V STEREO+SAP=3.8V
15	SAP detection sensitivity	33	Sub-carrier input(3.579545MHZ 200Mv)
16	dbx RMS detection	34	Filter adjustment check
17	Dbx broad band detection	35	Pilot dispel reference signal1
18	Dbx spectrum detection	36	Pilot dispel reference signal2

WIRING DIAGRAM



EXLODED VIEW



PART LIST OF EXPLODED VIEW

NO	DESCRIPTION	PART#
1	PORT BAFFLE	808-60780-04
2	BACK CABINET	780-10915-40
3	SCREW	851-24020-14
4	POWER CORD CLAMPE	742-30029-00
5	MAIN BOARD	667-TSP50-01
6	CRT	335-2112N-00U
7	CRT FIXER	868-20472-00D
8	CRT SUPPORT	868-20491-00
9	SCREW	851-53010-11
10	RIGHT TRACK	870-20846-00
11	SPEAKER BRACKET	870-20849-00
12	SIDE AV BRACKET	870-20843-40
13	WASHER	868-20217-00
14	SPEAKER	384-40308-40
15	FRONT CABINET	611-C50X0J0HD
16	BUTTON	877-50411-00
17	SCREW	855-A0029-00
18	BUTTON BOARD	782-TS2150-0500
19	STANDBY BOARD	667-TS20301-05
20	SCREW	851-24020-11
21	COMPONET SCREW	855-96024-31
22	DEGAUSSING COIL	477-12105-00U
23	CRT BOARD	No number
24	SCREW	851-24020-14
25	BACK CABINET	780-10915-40

	PART LIST	
PART#	DESCRIPTION	LOCA.NO.
100-TS20500-01	TS2050	
808-60780-04	#ELECTROLYTIC CAPACITOR CD110-16V-2.2uF-M	
881-60085	* (6-PINS) LEAD WITH HOUSING	
655-62101-01	*ELECTROLYTIC CAPACITOR CD110-16V-22uF-M	
681-40002	*TRANSISTOR 2SC2383-0	
681-80001	0F1 100 1VD502	
	AV JACK	
700-60151-00	AV306-2	
700-60152-00	AV306-2	
742-30005-09	AV901-5	
742-30029-00	AV6-8416	
742-30032-00	AV BOARD (SILK-SCREEN)	
742-30032-00	AV BOARD (SILK-SCREEN)	
742-30038-00	CRT54SX538Y22-DC01 THIN !	
808-70239-00	CRT FIXER	
851-23010-11	CRT SUPPORT	
851-23010-11	EVA GLUE 150X50X1	
851-23012-14	LED LED COLUMN	
851-23012-14	LED LED COLUMN	
851-24010-14	OK LABEL	
851-24020-11	PE/PEARL COTTONPALSTIC BAG 1100X1000	
851-24020-11	RV105 12X0.15 370mm BLACK	
851-24020-14	S-VIDEO TERMINAL S-402	
851-24020-14	KEY	
851-53010-11	KEY CAP (SILVER WHITE 03)	
851-53010-11	BUTTON PCB	
851-53012-14	BUTTON PCB	
851-53012-14	CARTON BOX (TS2050J,JENSEN)	
851-53012-14	CARTON BOX (BLANK， small)	
851-53012-14	FUSE 50T T3.15A/250V UL !	
851-53018-11	FUSE HOLDER	
851-53018-11	FUSE HOLDER	
855-A0029-00	SERVICE CARD(AMERICA 20-24 CRT)	
855-A0029-00	TWIST WIRE	
855-96024-31	BRAIDED WIARE SPRING	
	POLYESTER CAPACITOR	
857-10002-09	250VAC-0.22uF-M !	
857-10002-09	CBB21-200V-0.056uF-J	
857-10004-00	CBB21-200V-0.33uF-J	
857-10004-00	CBB21-200V-0.39uF-J	
868-10107-00	CBB81-1600V-3300PF-J	
868-10108-00	CBB81-1600V-3900pF-J	
868-20007-00	CBB81-1600V-4700PF-J	
868-20142-00	CL11-100V-0.015uF-J	
868-20465-00	CL11-100V-0.022uF-J	
868-20465-00	CL11-100V-0.033uF-J	
868-20472-00D	CL11-100V-0.047uF-K	
868-20491-00	CL11-100V-0.1uF-K	
870-20845-00	CL11-100V-0.1uF-K	
870-20846-00	CL21X-50V-0.1uF-J	

887-20044-01	CL21X-50V-0.1uF-J	
335-2112N-00U	CL21X-50V-0.1uF-J	
611-C50X0J0HD	CL21X-50V-0.47uF-J	
886-31132-00	CL21X-50V-1uF-J	
780-10915-40	ECWH12H562JR	
863-80747-01	MKP-300VAC-0.1UF-M !	
863-80748-01	SIDE AV PCB	
887-21096-P0	SIDE AV PCB	
123-30001-04	SIDE AV BRACKET (MOLD GRAYISH)	
477-12105-00U	SIDE AV BRACKET (MOLD GRAYISH)	
770-37112-40	SOCKET PIN RT-01T-1.3B	
887-21135-00	SOCKET PIN RT-01T-1.3B	
	CERAMIC CAPACITOR	
838-10012-00	CC45-CH1H101JYR	
880-10205-924	CC45-CH1H101JYR	
880-10423-01	CC45-CH1H101JYR	
881-63030-00A	CC45-CH1H101JYR	
881-64046-00	CC45-CH1H150JYR	
335-21225-00U	CC45-CH1H150JYR	
886-31132-174	CC45-CH1H220JYR	
488-10012-00	CC45-SL1H271JYR	
881-80666-00	CC45-SL1H271JYR	
604-TS20506-00	CC45-SL1H271JYR	
881-80679-00	CD11-B2GA471M-MYAS !	
353-34282-30	CD11-B2GA471M-MYAS !	
384-40308-40	CK45-B1H102KYR	
655-61201-153	CK45-B2H391KYR	
851-53012-11	CK45-F1H103ZYR	
868-20217-00	CK45-F1H103ZYR	
870-20849-00	CK45-F1H103ZYR	
667-TSP50-01\	CK45-F1H103ZYR	
667-TSP30-01U\	CK45-F1H103ZYR	
329-33204-00	CK45-F1H103ZYR	G201
329-54401-00	CK45-F1H103ZYR	G202
340-00079-00	CK45-F1H103ZYR	VD504
340-00079-00	CK45-F1H103ZYR	VD505
340-00079-00	CK45-F1H103ZYR	VD507
340-00292-00	CK45-F1H103ZYR	VD509
340-80022-00	CK45-F1H103ZYR	VD501
343-26880-20	CK45-F1H103ZYR	V401
343-26880-20	CK45-F1H103ZYR	V402
343-26880-20	CK45-F1H103ZYR	V403
352-04310-00	CT1-06-2B4-63V-152K	N504
352-06210-70	CT1-08-2B4-63V-332K	N502
352-24080-50	CT1-10-2F4-63V-223Z	N202
352-40530-00	CT1-10-2F4-63V-223Z	N601
352-76931-10	CT1-14b-2E-63V-473Z	N201
459-6215K-00	DD06-999B812K500	C508
364-36101-00	DD308-63F104Z50	XS604
364-36101-00	DD308-63F104Z50	XS701
364-32108-00	DD308-63F104Z50	XS502
364-33101-00	DE0705B471K1k	XS203

364-32101-00	DE0707B331K2K	XS204
364-34101-00	DE0905B152K1K	XS202
	CERAMIC CAPACITOR	
364-34101-00	DE0907B102K2K	XS205
459-B147M-20U	DE1205B472K1K	C524
459-B147M-20U	DE1205B472K1K	C525
364-36102-00	DE1205B472K1K	XS301
364-77511-00	DE1205B472K1K	FU501
364-77511-00	ECK-DNS222MEX !	
457-12003-90U	RBU06SL201J-H46CA	RL01
458-07009-00	RQC05B221K-6H46UA	Z201
462-2B410-M0U	RQC06B681K-6H46UA	C502
459-B222M-20	RQC06B681K-6H46UA	C523
467-2E022-H0	RQC06B681K-6H46UA	R314
459-6147K-00	RQC06B681K-6H46UA	C514
666-16002-00	RQC06B681K-6H46UA	VD509
459-6247K-00	CC45-CH1H200JYR	C503
459-6247K-00	CC45-CH1H390JYR	C504
459-6247K-00	CC45-CH1H390JYR	C505
459-6247K-00	CC45-CH1H470JYR	C506
462-2B422-M0U	FERRITE BEAD 3.5X1X4.5	C501
459-8210K-00	FERRITE BEAD TY6X2X3	C410
462-B0410-H0	(2-PINS) LEAD WITH HOUSING	C527
462-00410-K0	(3-PINS(LEAD WITH HOUSING	C326
462-00410-K0	(4 -PINS) LEAD WITH HOUSING	C328
464-04747-M0R	(4-PINS(LEAD WITH HOUSING	C507
462-83356-H0	(6-PINS(LEAD WITH HOUSING	C304
467-1D251-H0	(6-PINS(LEAD WITH HOUSING	R526
464-65547-M0	(6-PINS(LEAD WITH HOUSING	C338
464-6F810-M0	(6-PINS(LEAD WITH HOUSING	C521
464-6D810-M0	(6-PINS(LEAD WITH HOUSING	C519
464-6D810-M0	BATTERY 7＃(made in china	C703
	ELECTROLYTIC CAPACITOR	
464-6E822-M0	200USP470MA35	C329
464-6F747-M0	CD110-10V-100uF-M	C335
464-6F810-M0	CD110-10V-100uF-M	C317
464-62710-M0	CD110-10V-100uF-M	C301
464-62710-M0	CD110-10V-100uF-M	C517
464-65610-M0	CD110-10V-220uF-M	C303
469-10023-00	CD110-10V-470uF-M	RT501
470-00361-00U	CD110-16V-1000uF-M	T501
467-2G291-H0	CD110-16V-1000uF-M	R301
467-2E001-H0	CD110-16V-100uF-M	R321
467-2E133-H0	CD110-16V-100uF-M	R317
467-2F210-H0	CD110-16V-100uF-M	R315
467-2G015-H0	CD110-16V-10uF-M	R520
467-2G312-H0	CD110-16V-10uF-M	R104
467-2G315-H0	CD110-16V-10uF-M	R413
467-2G315-H0	CD110-16V-10uF-M	R414
467-2G315-H0	CD110-16V-10uF-M	R415
467-2H239-H0D	CD110-16V-10uF-M	R332
467-4FA24-H0	CD110-16V-10uF-M	R306

467-4FA33-H0	CD110-16V-10uF-M	R419
467-4FB33-H0	CD110-16V-10uF-M	R308
467-4F001-H0	CD110-16V-10uF-M	R307
467-4F010-H0	CD110-16V-10uF-M	R304
467-6F001-H0	CD110-16V-10uF-M	R324
467-8E227-H0A	CD110-16V-10uF-M	R416
467-8E227-H0A	CD110-16V-10uF-M	R417
467-8E227-H0A	CD110-16V-10uF-M	R418
467-8E422-H0	CD110-16V-10uF-M	R504
467-8E522-H0A	CD110-16V-10uF-M	R501
467-8E582-H0A	CD110-16V-10uF-M	R509
468-32107-00	CD110-16V-220uF-M	RP501
477-20028-00U	CD110-16V-330uF-M	L501
469-40004-00	CD110-16V-470uF-M	R502
471-2068K-10	CD110-16V-47uF-M	L102
472-10001-00	CD110-16V-47uF-M	T302
477-00083-00	CD110-25V-2200uF-M	L302
775-10054-00	CD110-35V-1000uF-M	A1
775-10054-00	CD110-35V-1000uF-M	A2
569-13141-90	CD110-35V-100uF-M	FU501
477-40031-00	CD110-35V-470uF-M	L301
477-40031-00	CD110-50V-0.33uF-M	L503
340-52840-0G	CD110-50V-0.47uF-M	VD101
464-60510-M0	CD110-50V-10uF-M	C708
655-41201-135	CD110-50V-10uF-M	XS302
655-61201-117	CD110-50V-1uF-M	XS201
666-13511-00	CD110-50V-1uF-M	J024
775-60044-00	CD110-50V-1uF-M	TP1
775-60044-00	CD110-50V-1uF-M	TP2
775-60137-00	CD110-50V-1uF-M	R104
775-60137-00	CD110-50V-1uF-M	R332
775-60137-00	CD110-50V-1uF-M	VD508
775-60137-00	CD110-50V-1uF-M	VD509
775-60137-00	CD110-50V-1uF-M	VD507
775-60137-00	CD110-50V-2.2uF-M	R520
775-60137-00	CD110-50V-2.2uF-M	
464-60610-M0	CD110-50V-4.7uF-M	C104
464-6D610-M0	CD110-50V-4.7uF-M	C610
464-6C710-M0	CD110-50V-47uF-M	C102
467-2D239-G0	CD11W-50V-0.47uF-M	R312
467-2D282-G0	CD288-160V-100uF-M	R311
459-8133K-00	CD288-160V-100uF-M	C312
464-6C722-M0	CD288-160V-4.7uF-M	C234
340-00291-00	CD288-250V-10uF-M	VD508
467-4FB33-H0	CD288-250V-4.7uF-M	J046
364-91206-00	POTENTIOMETER EVND8A-A03-B13	XS602
364-58204-00	POWER FILTER LF21065 !	XS403
364-99208-00	POWER SYMBOL LABEL (JENSEN)	XS601
590-40707-00	POWER CORD UL !	T101
472-24212-00	POWER CORD CLASPER	T301
681-40003-00	POWER CORD COVER	
742-30005-09	CUSHION	

881-60074-00	CUSHION	
343-01800-00	CUSHION	V502
343-21400-00	CUSHION	V302
352-07400-10	WASHER	N501
352-75220-00	WASHER GB859-87,3-DZn	N701
352-78040-70	WASHER GB859-87,3-DZn	N301
352-78050-00	WASHER GB859-87,3-DZn	N503
462-83433-H0	WASHER (14X4X1 METAL)	C339
462-88247-H0	WASHER (14X4X1 METAL)	C310
462-88239-H0	TUNER 115-B-8035AZ	C311
851-13008-56	INTERFACE SPACE PLATE (SILK-SCREEN)	N701
	DIODE	
706-T3003-01	1N4002	N701
706-20173-00	1N4148	N503
706-20173-00	1N4148	V502
706-20249-00	1N4148	V302
706-46006-01	1N4148	N301
706-64002-01	1N4148	N501
851-13008-56	1N4148	N301
851-13008-56	1N4148	N501
851-13008-56	1N4148	N701
852-13008-81	FR103	N503
852-13008-81	FR103	V502
852-13008-81	FR103	V302
893-10300-11	FR103	N503
893-10300-11	FR103	V502
893-10300-11	FR103	V302
894-40030-11	S5295G	N503
894-40030-11	S5295J	V502
894-40030-11	TEU2YX	V302
467-4FA12-H0	TRU3A	R419
462-83439-H0	2-PINS CONNECTORS TJC1-2A	C339
462-88233-H0	2-PINS CONNECTORS TJC3-02A	C311
462-88256-H0	LED HFR205 (RED)	C310
477-00077-00	POLY FOAM (TOP)(small)	L302
655-61201-65	POLY FOAM (BOTTOM)(small)	XS201
467-2E068-H0	HIGH VOLTAGE WARNING LABEL	R314
998	FIXED COIL LG750	C203
998	FIXED COIL LG750	XS606 1#-7#,7#-8#
998	JUMPER WIRE	
364-96231-00	JUMPER WIRE	XS601
364-58210-00	JUMPER WIRE	XS403
742-30005-09	JUMPER WIRE	
887-20171-00	JUMPER WIRE	
491-702D0-02	JUMPER WIRE	
667-TSP50-01*	JUMPER WIRE	
343-18150-104	JUMPER WIRE	V201
459-2020H-102	JUMPER WIRE	C201
459-2322R-002	JUMPER WIRE	C205
467-1C133-H03	JUMPER WIRE	R203
467-1C210-H03	JUMPER WIRE	R202
667-TSP30-01U*	JUMPER WIRE	

1	JUMPER WIRE	1
340-00001-003	JUMPER WIRE	VD512
340-00001-003	JUMPER WIRE	VD401
340-00001-003	JUMPER WIRE	VD402
340-00001-003	JUMPER WIRE	VD403
340-00001-003	JUMPER WIRE	VD510
340-00001-003	JUMPER WIRE	VD506
340-00001-003	JUMPER WIRE	VD601
340-00005-003	JUMPER WIRE	VD301
340-00011-003	JUMPER WIRE	VD308
340-50470-003	JUMPER WIRE	VD503
340-50520-003	JUMPER WIRE	VD201
340-50520-003	JUMPER WIRE	VD309
340-50560-003	JUMPER WIRE	VD513
340-50560-003	JUMPER WIRE	VD202
340-50560-003	JUMPER WIRE	VD203
340-50560-003	JUMPER WIRE	VD204
340-50750-003	JUMPER WIRE	VD307
464-30447-M02	JUMPER WIRE	C235
343-10150-104	JUMPER WIRE	V501
343-10150-104	JUMPER WIRE	V202
343-18150-104	JUMPER WIRE	V303
343-18150-104	JUMPER WIRE	V505
343-18150-104	JUMPER WIRE	V507
343-18150-104	JUMPER WIRE	V503
343-18150-104	JUMPER WIRE	V504
343-23830-604	JUMPER WIRE	V301
343-27170-004	JUMPER WIRE	V101
459-2127H-902	JUMPER WIRE	C404
459-2127H-902	JUMPER WIRE	C405
459-2127H-902	JUMPER WIRE	C406
459-2015H-102	JUMPER WIRE	C220
459-2015H-102	JUMPER WIRE	C221
459-2022H-102	JUMPER WIRE	C229
459-2039H-102	JUMPER WIRE	C201
459-2039H-102	JUMPER WIRE	C251
459-2047H-102	JUMPER WIRE	C226
459-2110H-102	JUMPER WIRE	C711
459-2110H-102	JUMPER WIRE	C712
459-2110H-102	JUMPER WIRE	C713
459-2110H-102	JUMPER WIRE	C714
459-2120H-902	JUMPER WIRE	C252
464-6D522-M02	JUMPER WIRE	C704
459-2210K-002	JUMPER WIRE	C333
459-2215K-002	JUMPER WIRE	C208
459-2233K-002	JUMPER WIRE	C511
459-2310R-002	JUMPER WIRE	C106
459-2310R-002	JUMPER WIRE	C107
459-2310R-002	JUMPER WIRE	C108
459-2310R-002	JUMPER WIRE	C207
459-2310R-002	JUMPER WIRE	C224
459-2310R-002	JUMPER WIRE	C237
459-2310R-002	JUMPER WIRE	C210

459-2310R-002	JUMPER WIRE	C707
459-2310R-002	JUMPER WIRE	C709
459-2310R-002	JUMPER WIRE	C103
459-2310R-002	JUMPER WIRE	C105
459-2310R-002	JUMPER WIRE	C219
459-2310R-002	JUMPER WIRE	C241
459-2310R-002	JUMPER WIRE	C232
459-2310R-002	JUMPER WIRE	C244
459-2322R-002	JUMPER WIRE	C202
459-2347R-002	JUMPER WIRE	C231
459-2410R-002	JUMPER WIRE	C228
459-2410R-002	JUMPER WIRE	C230
459-2410R-002	JUMPER WIRE	C240
459-5122K-002	JUMPER WIRE	C302
459-5139K-002	JUMPER WIRE	C306
459-5168K-002	JUMPER WIRE	C315
459-5168K-002	JUMPER WIRE	C318
459-5168K-002	JUMPER WIRE	C323
459-5168K-002	JUMPER WIRE	C513
459-5168K-002	JUMPER WIRE	C515
459-5182K-002	JUMPER WIRE	C305
462-B0410-H02	JUMPER WIRE	C245
462-B0447-H02	JUMPER WIRE	C214
462-00315-H02	JUMPER WIRE	C216
462-00322-H02	JUMPER WIRE	C510
462-00333-H02	JUMPER WIRE	C222
462-00347-K02	JUMPER WIRE	C512
464-6C747-M02	JUMPER WIRE	C250
464-6C710-M02	JUMPER WIRE	C209
464-6C710-M02	JUMPER WIRE	C218
464-6D610-M02	JUMPER WIRE	C327
464-6D610-M02	JUMPER WIRE	C601
464-6D610-M02	JUMPER WIRE	C602
464-6D610-M02	JUMPER WIRE	C603
464-6D610-M02	JUMPER WIRE	C605
464-6D610-M02	JUMPER WIRE	C608
464-6D610-M02	JUMPER WIRE	C407
464-6D610-M02	JUMPER WIRE	C325
464-6D610-M02	JUMPER WIRE	C614
464-6D610-M02	JUMPER WIRE	C705
464-6D610-M02	JUMPER WIRE	C710
464-6D610-M02	JUMPER WIRE	C604
464-6D610-M02	JUMPER WIRE	C607
464-6D610-M02	JUMPER WIRE	C609
464-6D610-M02	JUMPER WIRE	C612
464-6D610-M02	JUMPER WIRE	C613
464-6D610-M02	JUMPER WIRE	C611
464-6D622-M02	JUMPER WIRE	C211
464-60433-M02	SOLDERING BLADE	C227
464-6D710-M02	SOLDERING BLADE	C212
464-6D710-M02	CERTIFICATE LABEL	C322
464-6D710-M02	BACK CABINET (MOLD GRAYISH)	C529
464-6D722-M02	BACK PLATE SMD (TS2050J,JENSEN)	C606

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464-6D733-M02	KA7805 (M)	C233
464-6D747-M02	LM431A (M)	C319
464-6F710-M02	M24C08BN6	C332
464-60447-M02	TC4053BP (M)	C236
464-60510-M02	TLP621-GB(UL((O(!	C239
464-60510-M02	AN7522N (M)	C204
464-60510-M02	HRM138BB3006 (M)	C242
464-60510-M02	KA5Q0740RTYDTU	C243
464-60510-M02	LA76931-7N56M6-E	C706
464-60510-M02	LA78040N (D)	C248
464-60510-M02	RELAY JQX-115F-012-1H1 !	C249
464-60510-M02	GLUE CUSHION(δ1.5)	C247
	METAL RESISTOR	
464-60522-M02	1/2W-330Ω-JL	C238
464-60522-M02	1/2W-68Ω-JL	C223
464-60547-M02	1W-1KΩ-JL	C330
464-60547-M02	1/2W-1Ω-JL	C101
464-60610-M02	1/2W-22Ω-JL	C324
464-60647-M02	1/4W-180K-J	C509
464-62547-M02	1/4W-3.9K-G	C307
467-1C010-H03	1/4W-30K-G	R507
467-1C010-H03	1/4W-4.7K-G	R309
467-1C027-H03	1/4W-5.1K-F	R109
467-1C033-H03	1/4W-8.2K-G	R303
467-1C051-H03	2W-12kΩ-JL	R208
467-1C075-H03	2W-15kΩ-JL	R602
467-1C075-H03	2W-15kΩ-JL	R603
467-1C075-H03	2W-15kΩ-JL	R609
467-1C075-H03	2W-15Ω-JL	R616
467-1C075-H03	2W-9.1kΩ-JL	R621
467-1C075-H03	3W-3.9kΩ-JL	R622
467-1C075-H03	CRYSTAL 32.768K	R601
467-1C075-H03	CRYSTAL JA18 4.433619MHZ	R604
	TRANSISTOR	
467-1C110-H03	2SA1015Y Pr2.5	R103
467-1C110-H03	2SA1015Y Pr2.5	R110
467-1C110-H03	2SC1815-Y	R218
467-1C110-H03	2SC1815-Y	R219
467-1C110-H03	2SC1815-Y	R224
467-1C110-H03	2SC1815-Y	R102
467-1C110-H03	2SC1815-Y	R108
467-1C110-H03	2SC1815-Y	R228
467-1C110-H03	2SC2688L	R232
467-1C110-H03	2SC2688L	R401
467-1C110-H03	2SC2688L	R404
467-1C110-H03	2SC2717	R407
467-1C110-H03	KSE180 TO-126	R235
467-2D247-G03	TT2140	R511
467-1C115-H03	SWITCHING TRANSFORMERSR4039C !	R107
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467-1C118-H03	1W-0.33Ω-JL	R211
467-1C133-H03	1W-0.33Ω-JL	R326
467-1C139-H03	1W-10Ω-JL	R403
467-1C139-H03	1W-2.4Ω-JL	R406
467-1C139-H03	1W-1.2Ω-JL	R409
467-1C147-H03	1W-1Ω-JL	R505
467-1C156-H03	1W-3.3Ω-JL	R231
467-1C156-H03	BLANK WARNING LABEL	R234
	HOLLOW PILLAR	
467-1C156-H03	φ2.36×14B	R519
467-1C156-H03	φ2.36×14B	R240
467-1C168-H03	φ2.36×14B	R506
467-1C175-H03	φ2.36×14B	R209
467-1C210-H03	φ2.36×14B	R605
467-1C210-H03	φ2.36×14B	R606
467-1C210-H03	φ2.36×14B	R607
467-1C210-H03	拉CLASPERPALSTIC BAG 230X330X0.1	R608
467-1C210-H03	SPEAK BRACKET	R612
467-1C210-H03	6-PINS CONNECTORS TJC3-06A	R613
467-1C210-H03	6-PINS CONNECTORS TJC3-06A	R709
467-1C210-H03	6-PINS CONNECTORS TJC2-6A	R508
	SCREW	
467-1C210-H03	P(+(M3X8-D.Zn	R305
467-1C212-H03	P(+(M3X8-D.Zn	R106
467-1C212-H03	P(+(M3X8-D.Zn	R410
467-1C215-H03	SJ2824 ST4X10C-Y	R318
467-1C218-H03	SJ2824 ST4X20C-D.Zn	R708
467-1C222-H03	SJ2824 ST4X20C-D.Zn	R205
467-1C230-H03	SJ2824 ST4X20C-Y	R212
467-1C239-H03	SJ2824 ST4X20C-Y	R522
467-1C243-H03	SJ2825 ST3X10C-D.Zn	R610
467-1C243-H03	SJ2825 ST3X10C-D.Zn	R611
467-1C247-H03	SJ2825 ST3X10FT-D.Zn	R313
467-1C247-H03	SJ2825 ST3X10FT-D.Zn	R402
467-1C247-H03	SJ2825 ST3X12C-D.Zn	R405
467-1C247-H03	SJ2825 ST3X12C-D.Zn	R408
467-1C247-H03	SJ2825 ST3X12C-D.Zn	R210
467-1C256-H03	SJ2825 ST3X12C-D.Zn	R105
467-1C268-H03	SJ2825 ST3X12C-D.Zn	R620
467-1C268-H03	SJ2825 ST3X18C-D.Zn	R524
467-1C268-H03	SJ2825 ST3X18C-D.Zn	R525
467-1C268-H03	P(+(T3X8S-R	R528
467-1C310-H03	P(+(T3X8S-R	R204
467-1C310-H03	P(+(T3X8S-R	R206
467-1C310-H03	P(+(T3X8S-R	R236
467-1C310-H03	SJ2824 ST3X10C-D.Zn	R521
467-1C310-H03	SJ2824 ST3X10C-D.Zn	R325
467-1C310-H03	SJ2824 ST3X12C-Y	R514
467-1C310-H03	SJ2824 ST3X12C-Y	R515
467-1C310-H03	ST4X14	R713
467-1C310-H03	ST4X14	R714
	NUT	
467-1C310-H03	GB6170-86-M3-D.Zn	R516

467-1C310-H03	GB6170-86-M3-D.Zn	R518
467-1C310-H03	GB6170-86-M3-D.Zn	R523
467-1C310-H03	COTTON FLANNEL	R226
467-1C312-H03	COTTON FLANNEL	R327
467-1C312-H03	COTTON FLANNEL	R310
467-1C315-H03	COTTON FLANNEL	R241
	RIVET	
467-1C315-H03	GB876-86-2.5X3 COPPER	R619
467-1C320-H03	GB876-86-2.5X3 COPPER	R227
467-1C320-H03	GB876-86-2.5X3 COPPER	R320
467-1C322-H03	GB876-86-2.5X3 COPPER	R319
467-1C322-H03	GB876-86-2.5X3 COPPER	R214
467-1C322-H03	GB876-86-2.5X3 COPPER	R215
467-1C322-H03	GB876-86-2.5X3 COPPER	R216
467-1C322-H03	GB876-86-2.5X3 COPPER	R217
467-1C322-H03	GB876-86-2.5X3 COPPER	R220
467-1C322-H03	GB876-86-2.5X3 COPPER	R243
467-1C324-H03	GB876-86-2.5X3 COPPER	R229
467-1C324-H03	GB876-86-2.5X3 COPPER	R230
467-1C324-H03	GB876-86-2.5X3 COPPER	R510
467-1C333-H03	GB876-86-2.5X3 COPPER	R328
467-1C339-H03	GB876-86-2X2.5-COPPER	R201
467-1C347-H03	GB876-86-2X2.5-COPPER	R237
467-1C347-H03	GB876-86-2X2.5-COPPER	R238
467-1C368-H03	GB876-86-2X2.5-COPPER	R242
467-1C410-H03	GB876-86-2X2.5-COPPER	R101
467-1C410-H03	GB876-86-2X2.5-COPPER	R614
467-1C410-H03	GB876-86-2X2.5-COPPER	R615
467-1C410-H03	GB876-86-2X2.5-COPPER	R617
467-1C410-H03	GB876-86-2X2.5-COPPER	R618
467-1C410-H03	GB876-86-2X2.5-COPPER	R527
467-1C410-H03	GB876-86-2X2.5-COPPER	R344
467-1C415-H03	GB876-86-2X2.5-COPPER	R343
467-1C415-H03	GB876-86-2X2.5-COPPER	R225
467-1C439-H03	GB876-86-2X2.5-COPPER	R207
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467-1C230-H03	GB876-86-2X2.5-COPPER	R517
467-1C468-H03	GB876-86-2X2.5-COPPER	R233
467-1C510-H03	GB876-86-2X2.5-COPPER	R223
467-1D227-H03	GB876-86-2X2.5-COPPER	R302
467-2D418-H03	GB876-86-2X2.5-COPPER	R513
467-2D251-F03	GB876-86-2X2.5-COPPER	R213
467-1C175-H03	GB876-86-2X2.5-COPPER	R239
471-2B56K-003	GB876-86-2X2.5-COPPER	L101
471-2022K-003	GB876-86-2X2.5-COPPER	L201
471-2022K-003	GB876-86-2X2.5-COPPER	L202
471-2027K-003	GB876-86-2X2.5-COPPER	L204
471-2027K-003	LINE TIE	L203
782-TS2030-010B	LINE TIE	
895-6020025-50	LINE TIE	M105
895-6020025-50	FRONT CABINET ASS'Y (HIPS V0 SILVER WHITE 03	M106
895-6020025-50	FRONT LOGO (JENSEN, SILVERY GLOSS GREY 10	M113
895-6020025-50	TACT SWITCH KFC-A06-4X4.5X5B	M115

895-6020025-50	TACT SWITCH KFC-A06-4X4.5X5B	M117
895-6020025-50	TACT SWITCH KFC-A06-4X4.5X5B	M118
895-6020025-50	TACT SWITCH KFC-A06-4X4.5X5B	M119
895-6020025-50	TACT SWITCH KFC-A06-4X4.5X5B	M126
895-6020025-50	TACT SWITCH KFC-A06-4X4.5X5B	M103
895-6020025-50	TACT SWITCH KFC-A06-4X4.5X5B	M104
895-6020025-50	THERMISTOR 5D2-14LC !	M122
895-6020025-50	THERMISTOR 96708 (9Ω)	M132
895-6020025-50	3-PINS CONNECTORS TJC3-03A	M133
895-6020025-50	HEAT SINK	M111
895-6020025-50	HEAT SINK	M112
895-6020025-50	HEAT SINK	M107
895-6020025-50	HEAT SINK	M108
895-6020025-50	HEAT SINK	M109
895-6020025-50	HEAT SINK	M128
895-6020025-50	PEAKING COIL LGA0410-68uH-K	M129
895-6020025-50	PEAKING COIL SPT0305-220K-5	M114
895-6020025-50	PEAKING COIL SPT0305-220K-5	M116
895-6020025-50	PEAKING COIL SPT0305-270K-5	M125
895-6020025-50	PEAKING COIL SPT0305-270K-5	M127
895-6020025-50	PEAKING COIL SPT0305-R56K-5	M119A
895-6025030-50	SAW FILTER M1859M	M201
895-6025030-50	OWNER'S MANUAL(JENSEN USA无MTS)	M202
895-6025030-50	4-PINS CONNECTORS TJC3-04A	M203
895-6025030-50	4-PINS CONNECTORS TJC3-04A	M204
895-6025030-50	PALSTIC BAG 70-500-0.06	M205
	SOLID RESISTOR	
895-6025030-50	1/2W-2.2M-J !	M206
895-6025030-50	1/2W-2.7KΩ-J !	M207
895-6025030-50	1/2W-2.7KΩ-J !	M208
895-6025030-50	1/2W-2.7KΩ-J !	M209
895-6025030-50	1/2W-220KΩ-JL !	M210
895-6025030-50	1/2W-8.2MΩ-J !	M211
	CARBON RESISTOR	
895-6025030-50	1/6W-1.2K-J	M212
895-6025030-50	1/6W-1.2K-J	M213
895-6025030-50	1/6W-1.5K-J	M214
998	1/6W-1.8K-J	J001
998	1/6W-100K-J	J099
998	1/6W-100K-J	J003
998	1/6W-100K-J	J004
998	1/6W-100K-J	J005
998	1/6W-100K-J	J006
998	1/6W-100K-J	J007
998	1/6W-100K-J	J008
998	1/6W-100Ω-J	J009
998	1/6W-100Ω-J	J010
998	1/6W-100Ω-J	J011
998	1/6W-100Ω-J	J012
998	1/6W-100Ω-J	J013
998	1/6W-100Ω-J	J014
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998	1/6W-12K-J	J042
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998	1/6W-12K-J	J044
998	1/6W-150K-J	J045
998	1/6W-150K-J	J047
998	1/6W-150Ω-J	J048
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998	1/6W-470Ω-J	R316
998	1/6W-47K-J	R503
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998	1/6W-47Ω-J	J101
998	1/6W-5.6K-J	J102
998	1/6W-51Ω-J	J103
998	1/6W-560Ω-J	J104
998	1/6W-560Ω-J	J106
340-51260-003	1/6W-560Ω-J	VD515
340-50240-003	1/6W-560Ω-J	VD514
462-B0410-H02	1/6W-6.8K-J	C520
467-1C268-H03	1/6W-6.8K-J	R711
467-1C268-H03	1/6W-6.8K-J	R712
462-B0510-H02	1/6W-6.8K-J	C217
467-1C275-H03	1/6W-6.8K-J	R330
467-1C282-H03	1/6W-6.8K-J	R715
467-1C282-H03	1/6W-680K-J	R716
467-1C310-H03	1/6W-680Ω-J	R707
467-1C310-H03	1/6W-68K-J	R710
340-00079-003	1/6W-7.5K-J	VD304
340-00079-003	1/6W-750Ω-J	VD305
340-00079-003	1/6W-750Ω-J	VD306
464-6C710-M02	1/6W-75Ω-J	C225

464-6D647-M02	1/6W-75Ω-J	C255
467-2D330-G03	1/6W-75Ω-J	R512
467-1C110-H03	1/6W-75Ω-J	J031
340-00010-003	1/6W-75Ω-J	VD313
895-6020025-50	1/6W-75Ω-J	M110
364-93202-00	1/6W-75Ω-J	XA01
655-6E301-12	1/6W-75Ω-J	#XA03
782-M2150-290B	1/6W-8.2K-J	
870-20843-40	1/6W-8.2K-J	
851-53010-31	1/6W-8.2K-J	
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352-38060-60	HZ5C3	N901
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360-10001-00	HZ6B1	SW903
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360-10001-00	HZ6B1	SW905
360-10001-00	HZ7C2	SW906
464-6D647-M0	HZ12B1	C901
467-1C047-H0	HZ2C2	R913
467-1C210-H0	RD30E-B3	R902
467-1C210-H0	SERIAL NO. LABEL	R911
467-1C222-H0	CRT A51KQK99X01THICK !	R903
467-1C233-H0	CRT SOCKET GZS8-17(UL) !	R904
467-1C247-H0	CRT SOCKET GZS10-2-102G !	R905
467-1C282-H0	TIE	R906
467-1C312-H0	TIE	R907
467-1C420-H0	TIE	R909
655-31201-78	WIRE ROUND RESISTOR RX21-1-1Ω-J	XS902
655-41201-169	DEGAUSS COIL DX-56-2 !	XS901
782-TS2150-0500	HORIZONTAL DRIVE TRANSFORMER XR0961	
877-50411-00	FBT BSC25-3368MTHICK !	
877-50412-0H0	LINERITY COIL HL1830H-X14	
364-93202-00	LINERITY COIL LX221	XA01
655-6E301-12	SPEAKER ST511-02	#XA03
782-M2150-290B	RIGHT LEADING TRACK	
870-20843-40	RECTIFIER T2SB60	
851-53010-31	MAIN PCB ASS'Y (AUTOMATIC INSERTION)	
868-10043-00	MAIN PCB ASS'Y (AUTOMATIC INSERTION)	
808-6B786-14	MAIN PCB ASS'Y (MANUAL INSERTION)	
998	MAIN PCB ASS'Y (MANUAL INSERTION)	LA01
998	MAIN PCB	LA02
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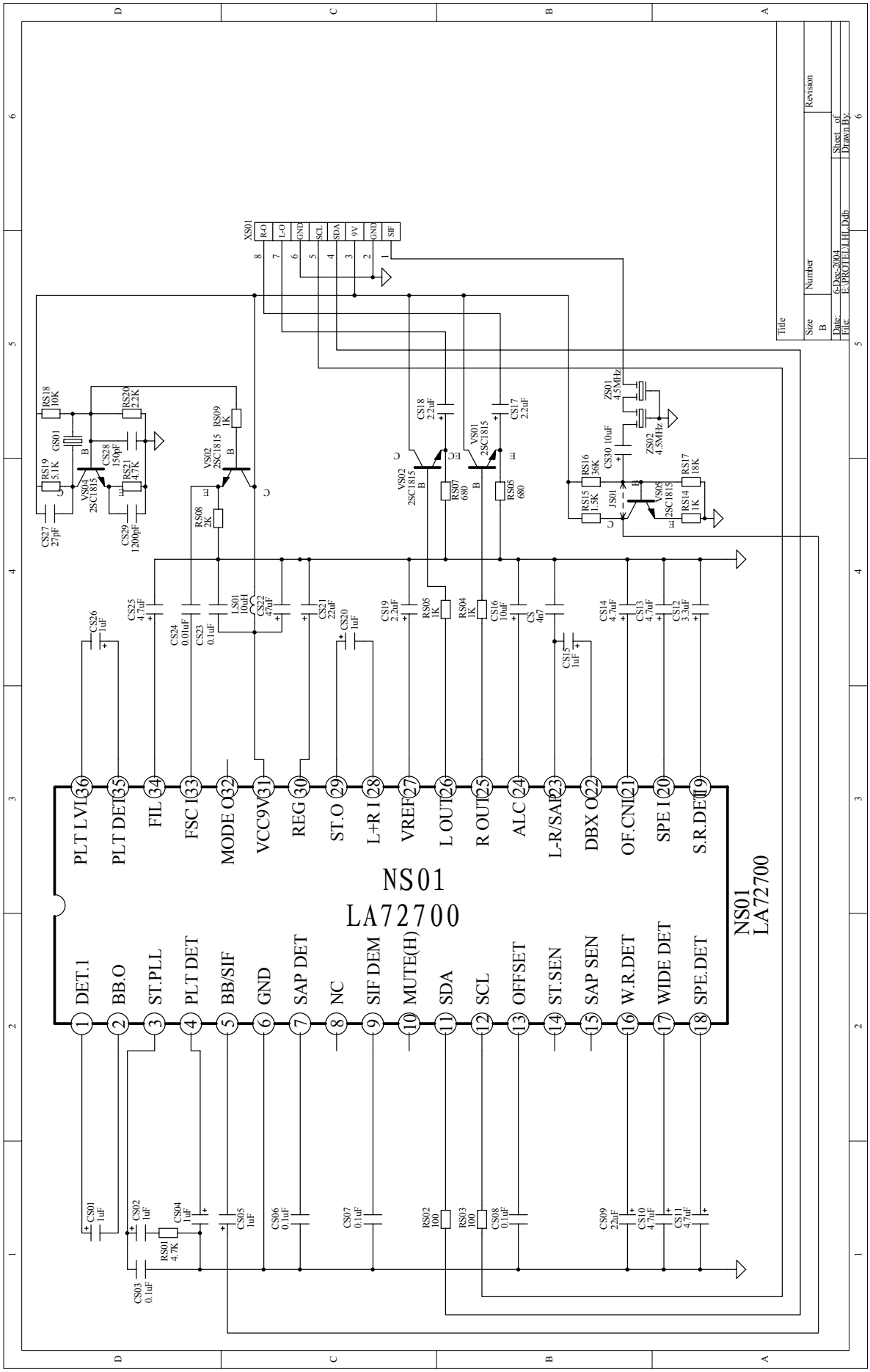
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L+R I
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R OUT
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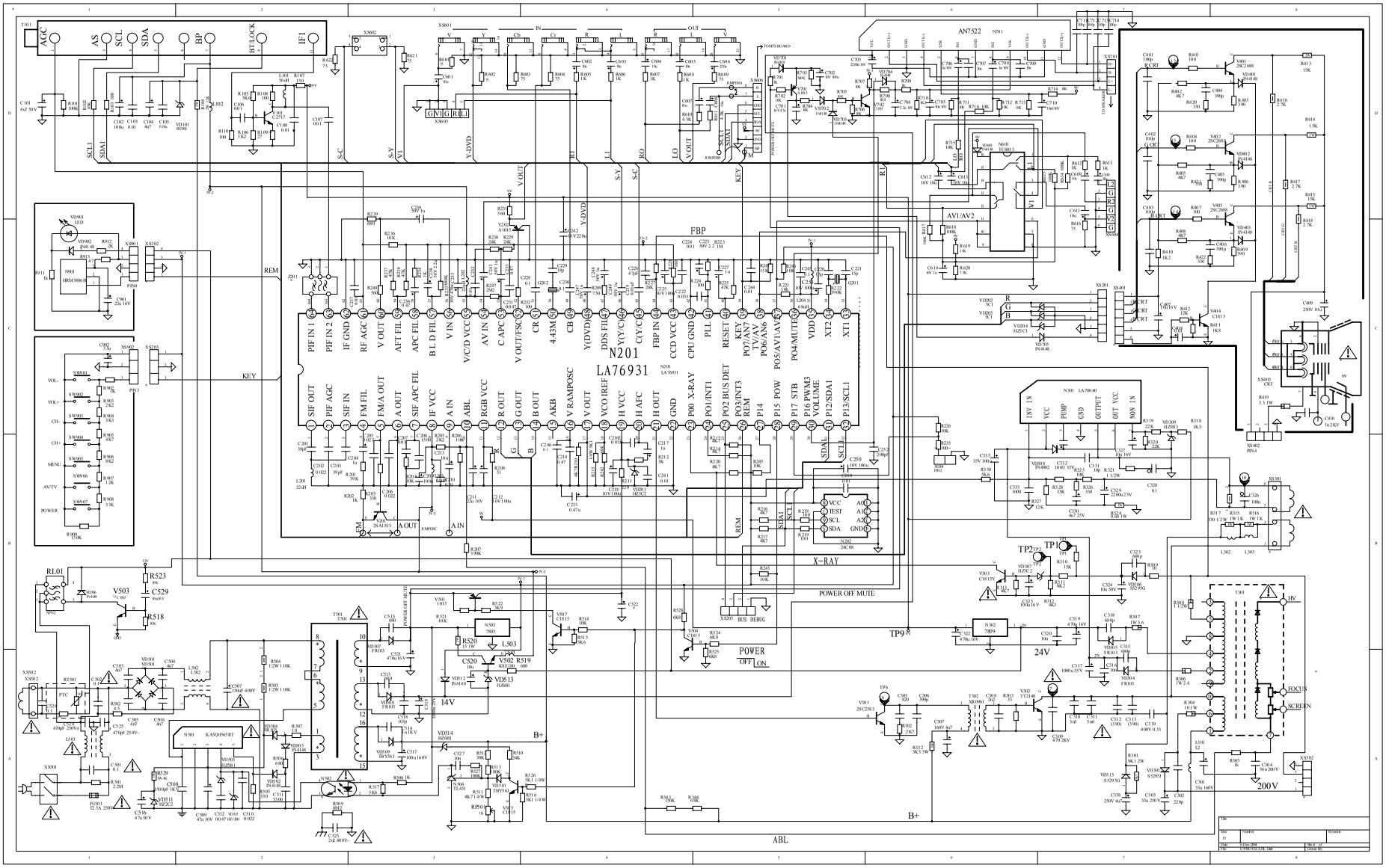
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KEY
SCREEN
FOCUS
PIF IN 1
PIF IN 2
IF GND
RF AGC
V OUT
AFT FIL
APC FIL
B L D FIL
V IN
V/C/D VCC
AV IN
C APC
V OUT/FSK
CR
4.43M
CB
Y(DVD)
DDS FIL
Y(Y/C)
C(Y/C)
FBP IN
CCD VCC
CPU GND
PLL
RESET
KEY
PO7/AN7
TV/AV
PO6/AN6
PO5/AV1/AV2
PO4/MUTE
VDD
XT2
XT1
SIF OUT
PIF AGC
SIF IN
FM FIL
FM/A OUT
A OUT
SIF APC FIL
IF VCC
A IN
ABL
RGB VCC
R OUT
G OUT
B OUT
AKB
V RAMPOSC
V OUT
VCO IREF
H VCC
H AFC
H OUT
GND
P00 X-RAY
PO1/INT1
PO2 BUS DET
PO3/INT3
REM
P14
P15 POW
P17 STB
P16 PWM3
VOLUME
P12/SDA1
P13/SCL1
AN7522
N701
LA78040
N301
N302
7809
N303
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N202
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CH+
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MENU
AV/TV
POWER
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SDA1
S-V
S-C
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RT
L1
RO
LO
V OUT
KEY
REM
AFC
SDA
SCL
VCC
TEST
SCL
SDA
A0
A1
A2
GND
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VCC
PUMP
GND
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OUT VCC
NOS IN
BUS DEBUG
TO DEFLECTION
TO CRT
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G CRT
B CRT
CRT R
CRT G
CRT B
FOCUS
SCREEN
HV
200V
24V
B+
ABL